Anti-Methylene diphenyl diisocyanate [DA5] Standard Size Ab00500-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa
Clone Number: DA5
Alternative Name(s) of Target: MDI
UniProt Accession Number of Target Protein:
Published Application(s): WB, ELISA
Published Species Reactivity: Species independent
Immunogen: Mouse serum protein conjugated with MDI.
Specificity:
Application Notes: The antibody binds specifically to MDI, a low-molecular weight aromatic diisocyanate which is commonly used to make polyurethane. MDI is also a major cause of occupational asthma, due to its ability to sensitize the immune system and elicit an immune response. In humans, the carrier protein albumin is able to recognise and conjugate with MID, forming a complex which is bound by IgE, triggering an asthmatic attack. Monoclonal antibodies directed against MID can be applied to diagnostics and research,and can be used to detect and quantitate MID levels in blood and urine, as well as in environmental samples.
Antibody First Published in: Wisnewski AV, Liu J. Molecular determinants of humoral immune specificity for the occupational allergen, methylene diphenyl diisocyanate. Mol Immunol. 2013 Jun;54(2):233-7. PMID:23295252
Note on publication: Describes the production of six monoclonal antibodies directed against MDI, which could be developed into useful diagnostic reagents.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -

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20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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